

CLAIMS

1. An image pickup device comprising:

a movable image pickup member which configures an image pickup section for performing an image pickup of a subject, an actuator which deforms by being supplied with electric power to move the image pickup member and in which operating property for the supply of the electric power are varied in response to use environmental conditions of the image pickup device, and a controlling section for controlling an operation of the actuator,

a storing section for storing stop position information in which an operation amount of the actuator for moving the image pickup member to a predetermined stop position is defined based on the operating property of the actuator, which corresponds to at least one of the use environmental conditions of the image pickup device;

a use environmental condition specifying section for specifying the use environmental conditions of the image pickup device; and

an operation amount obtaining section for obtaining the operation amount of the actuator from the stop position information stored in the storing section based on the operating property of the actuator, which corresponds to the use environmental conditions specified by the use environmental condition specifying section,

wherein the controlling section controls an operation of the actuator so that the actuator moves the image pickup member to the predetermined stop position in accordance with the operation amount of the actuator, which is obtained by the operation amount obtaining section.

2. The image pickup device of claim 1,
wherein the stop position information comprises temperature operation amount information in which the operation amount of the actuator is defined based on the operating property of the actuator, which is varied in response to the use environmental conditions including temperature,

the use environmental condition specifying section comprises a temperature detecting section for detecting the temperature, and

the operation amount obtaining section obtains the operation amount of the actuator, which corresponds to the operating property of the actuator at the temperature detected by the temperature detecting section, from the temperature operation amount information of the stop position information.

3. The image pickup device of claim 1 or 2,
wherein the stop position information comprises attitude operation amount information in which the

operation amount of the actuator is defined based on the operating property of the actuator, which is varied in response to the use environmental conditions including an attitude of the image pickup section,

the use environmental condition specifying section comprises an attitude specifying section for specifying the attitude of the image pickup section in a case of the image pickup of the subject, and

the operation amount obtaining section obtains the operation amount of the actuator, which corresponds to the operating property of the actuator in the attitude of the image pickup section, the attitude being specified by the attitude specifying section, from the attitude operation amount information of the stop position information.

4. The image pickup device of any one of claims 1 to 3,

wherein the stop position information comprises direction operation amount information in which the operation amount of the actuator is defined based on the operating property of the actuator, which is varied in response to the use environmental conditions including a moving direction of the image pickup member which is moved by the actuator,

the use environmental condition specifying section comprises a moving direction specifying section for

specifying the moving direction of the image pickup member which is moved by the actuator, and

the operation amount obtaining section obtains the operation amount of the actuator, which corresponds to the operating property of the actuator in the moving direction of the image pickup member, the moving direction being specified by the moving direction specifying section, from the moving operation amount information of the stop position information.

5. The image pickup device of any one of claims 1 to 4,

wherein the stop position information comprises humidity operation amount information in which the operation amount of the actuator is defined based on the operating property of the actuator, which is varied in response to the use environmental conditions including humidity,

the use environmental condition specifying section comprises a humidity detecting section for detecting the humidity, and

the operation amount obtaining section obtains the operation amount of the actuator, which corresponds to the operating property of the actuator at the humidity detected by the humidity detecting section, from the humidity operation amount information of the stop position

information.

6. The image pickup device of any one of claims 1 to 5,

wherein the storing section stores distance information relating to an image pickup distance from the image pickup section to the subject in association with the stop position of the image pickup member,

the image pickup device further comprises:

a distance measuring section for measuring the image pickup distance; and

a stop position specifying section for specifying the stop position of the image pickup member from the distance information stored in the storing section, the distance information corresponding to the image pickup distance, based on the image pickup distance measured by the distance measuring section, and

wherein the operation amount obtaining section obtains the operation amount of the actuator, which corresponds to the stop position specified by the stop position specifying section, from the stop position information stored in the storing section.

7. The image pickup device of any one of claims 1 to 6,

wherein at least two of the actuators are provided,

the first actuator is configured to be capable of an operation control with high precision, and the second actuator is configured to have an operating range wider than the first actuator.